(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 7 July 2005 (07.07.2005)

PCT

(10) International Publication Number WO 2005/061977 A1

(51) International Patent Classification⁷:

F25D 17/06

(21) International Application Number:

PCT/KR2004/003288

(22) International Filing Date:

14 December 2004 (14.12.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data:

10-2003-0094248

20 December 2003 (20.12.2003) KR

10-2003-0094250

20 December 2003 (20.12.2003) KR

10-2003-0094249

20 December 2003 (20.12.2003) KR

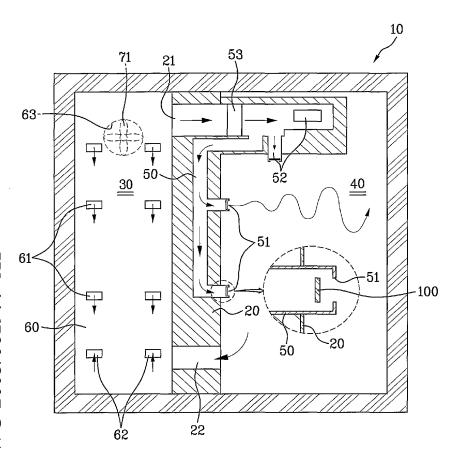
(71) Applicant (for all designated States except US): LG ELECTRONICS INC. [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHOI, Bong Jun [KR/KR]; Hyundai APT. 2-Cha, 201-213, Banlim-dong, Changwon-shi, Kyongsangnam-do 641-760 (KR). SIN, Jong Min [KR/KR]; Samsung APT., 110-1003, Munhyon-dong, Nam-gu, Pusan 608-822 (KR). SIM, Jae Seong [KR/KR]; Samsung Town, 102-108, Sanho-dong, 18-1, Happo-gu, Masan-si, Kyongsangnam-do 631-480 (KR). JEONG, Young [KR/KR]; Jukong APT., 326-303, Cheolsan-dong, 552, Gwangmyeong-si, Gyeonggi-do 423-030 (KR). KO, Young Hwan [KR/KR]; GMB APT., 514, Gaumjung-dong, 12-6, Changwon-si, Gyeongsangnam-do 641-711 (KR). HWANG, Jun Hyun [KR/KR]; LG Electronics Inc. Dormitory A- 106, Gaumjung-dong, 391-12, Changwon-si, Gyeongsangnam-do 641-711 (KR).

[Continued on next page]

(54) Title: REFRIGERATOR



(57) Abstract: A refrigerator is disclosed, which includes a body (10); a refrigerator chamber (40) and a freezing chamber (30) provided in the body, for taking storage of foods; a cool air-generating device (71) provided in the body, for generating a cool air-supplying device including at least one opening for discharging the cool air, and for circulating the cool air through the freezing chamber (30), the refrigerator chamber (40), and the cool air-generating device (71); and a separator (100) provided adjacent to the opening, for uniformly diffusing the cool air in the freezing chamber (30) and the refrigerator chamber (40), by separating the cool air into at least two passages.

WO 2005/061977 A1

- (74) Agents: BAHNG, Hae Cheol et al.; KBK & AS-SOCIATES, 15th Floor Yo Sam Building, 648-23, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.